

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
FILING COMPLETION UNDER 37 CFR 52, 53, and/or 85

L/M-1000

In re Application of:

R. KENNETH MARCUS  
W. CLAY DAVIS

Serial No.: 10/622,187

Filed: July 17, 2003

Confirmation No.: 2240

Attention: Mail Stop Missing Parts

Date: October 9, 2003

Attorney Docket No.: CXU-342-US

Group Art Unit: 2821

Our Customer ID: 22827

Our Account No.: 04-1403

Title: **ATMOSPHERIC PRESSURE, GLOW DISCHARGE, OPTICAL  
EMISSION SOURCE FOR THE DIRECT SAMPLING OF LIQUID MEDIA**

Commissioner for Patents  
U.S. Patent and Trademark Office  
Post Office Box 1450  
Alexandria, VA 22313-1450

Sir:

The following completes the filing of the above-identified patent application under Rule 52, 53, and/or 85:

- ☒ Rule 53 signed Declaration enclosed.  
☐ This is a Rule 47 filing per attached Petition.  
☐ Enclosed: Original signed Declaration with attached specification (including claims) which is a copy of specification/claims originally filed to secure above filing date.  
☐ Specification originally filed in non-English language; hence verified translation attached of:  
☐ Abstract ☐ pages of Specification (only spec. & claims) ☐ Drawing Figs.  
☒ 20 sheet(s) of Replacement drawings enclosed: size: ☐ A4 ☐ 14" ☒ 8½ by 11  
☒ Attached is an assignment to CLEMSON UNIVERSITY.  
☐ Priority is hereby claimed under rule 55 and 35 U.S.C. 119 based on prior foreign application(s) no(s).  
☐ \_\_\_\_\_, filed in \_\_\_\_\_ on \_\_\_\_\_, respectively.  
Certified copy (copies) ☐ attached; ☐ already filed on \_\_\_\_\_ in U.S. Application, Serial No. \_\_\_\_\_, filed \_\_\_\_\_.  
☐ "Small Entity" status under Rule 27 claimed. ☐ Attached: Verified Statement(s) establishing "small entity."  
☒ Attached is the request return copy of the PTO Notice under Rule 52, 53, and/or 85.  
☒ Attached: Fee Transmittal; Recordation Form Cover Sheet; Postcard Receipt.  
☐ Preliminary Amendment: \_\_\_\_\_

**THE FOLLOWING FILING FEE IS BASED ON CLAIMS AS FILED LESS ANY ABOVE CANCELLED  
PER MPEP § 506 AND § 607**

If not earlier paid, add Basic Filing Fee	\$ 770.00
Total Effective Claims <u>43</u> - 20 = <u>23</u> x \$18.00	\$ 414.00
Independent Claims <u>3</u> - 3 = <u>0</u> x \$86.00	\$ 0.00
If <u>any proper</u> multiple dependent claim (ignore improper) is present, add \$290.00	\$ 0.00
Filing Fee	\$ 1184.00

Since PTO Notice under Rule 52, 53, and/or 85 set an original due date of \_\_\_\_\_, petition is hereby made for an extension to cover the date this response is filed for which the requisite fee is enclosed (1 month \$110; 2 months \$420; 3 months \$950; 4 months \$1480).

\$ 0.00

If this is the first time either signed Declaration filed or filing fee paid, add Surcharge (\$130)

\$ 130.00

Subtotal

\$ 1314.00

If "small entity" status box above is X'd, enter half (1/2) of subtotal & subtract

\$ 657.00

Total

\$ 657.00

If "non-English" box above is X'd, add Rule 17(i) or (k) processing fee \$130.00

\$ 0.00

If "assignment" box is X'd, add recording fee (\$40.00)

\$ 40.00

If "Rule 47" box above is X-d, add Petition fee \$130.00 Rule 17(h)

\$ 0.00

**TOTAL FEE ENCLOSED**

\$ 697.00

The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any fees in addition to the fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (deficiency only) now or hereafter relative to this application and the resulting official document under Rule 20, or credit any overpayment, to our Account No. shown in the heading hereof for which purpose a duplicate copy of this sheet is attached. This statement does not authorize charge of the issue fee in this case.

ADDRESS:

Post Office Box 1449  
Greenville, South Carolina 29602  
Telephone: 864-271-1592  
Facsimile: 864-233-7342

DORITY & MANNING

ATTORNEYS AT LAW, P.A.

By: James M. Bagarazzi

Reg. No. 29,609 Date: 10-9-03

Signature: James M. Bagarazzi



10-10-03

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PATENT

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EMISSION SOURCE FOR THE DIRECT SAMPLING OF LIQUID MEDIA

"Express Mail" Mailing Label Number EV342 689 876 US

Date of Deposit October 9, 2003

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the Date of Deposit indicated above and is addressed to the MAIL STOP MISSING PARTS, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22213-1450.

Denise R. Ginn

(Typed or printed name of person mailing paper or fee)

Denise R. Ginn

(Signature of person mailing paper or fee)

OCT 09 2003

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/17 (10-03)  
 Approved for use through 07/31/2006. OMB 0651-0032  
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 697

**Complete if Known**

Application Number 10/622,187  
 Filing Date 07/17/2003  
 First Named Inventor R. KENNETH MARCUS  
 Examiner Name Unknown  
 Art Unit 2821  
 Attorney Docket No. CXU-342-US

**METHOD OF PAYMENT (check all that apply)**☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☐ Deposit Account:

Deposit  
Account  
Number  
Deposit  
Account  
Name

04-1403

Dority &amp; Manning, P.A.

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments☐ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	385.00
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			(\$ ) 385

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims	Extra Claims	Fee from below	Fee Paid
43	-20** = 23	9	207
Independent Claims	3	-3** = 0	43
Multiple Dependent		0.00	0.00

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ ) 207

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	65.00
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	40.00
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ ) 105

**SUBMITTED BY**

(Complete (if applicable))

Name (Print/Type) James M. Bagarazzi Registration No. 29,609 Telephone 864/271-1592  
 Signature *James M. Bagarazzi* Date 10-9-03

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.